

www.ovislink.com.tw

Internet Access Gateway

Quick Setup Guide



1. Introduction

1.1 Preface

This Quick Installation Guide provides instructions and reference material for getting started with IAS-2000. This guide will also show you how to connect IAS-2000 to other network equipments.

1.2 Package Contents

1. IAS-2000 x 1
2. CD-ROM x 1
3. Quick Installation Guide x 1
4. Power Cord x 1
5. Ethernet Cable (Crossover) x 1
6. Ethernet Cable (Straight) x3
7. Console Cable x 1
8. Accessory Pack x 1

Warning: Using a power supply with different voltage rating will damage this product.

1.3 System Overview

1.3.1 Hardware Introduction

Link LED:
It stands for being connected to RJ45 connectors.

Power LED:
Should light stand for the power is on.

AUX Port:
It is reserved for future usage.

WAN1/WAN2:
Connects to the Intranet or Internet by Switch.

Act LED:
It stands for transmitting data.

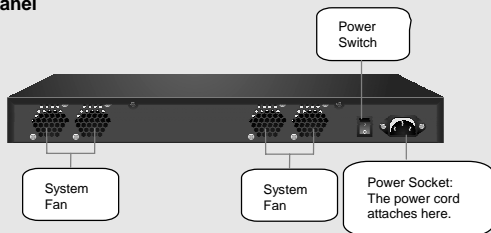
Status LED:
Black indicates BIOS running. Blink light indicates OS running. Solid light indicates the system ready.

Console Port:
It resumes the factory defaults or reconfigures the system.

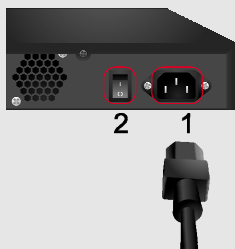
LAN1/LAN2:
Connects to the open network environment. It can be chosen to require or not require authentication to access network resources and Internet



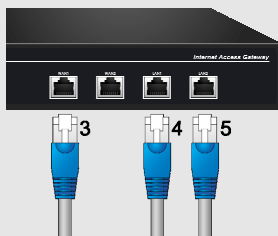
Rear Panel



1.3.2 Hardware Installation



1. Connect the power cord to the power socket on the rear panel.



2. Connect an Ethernet cable to the WAN1 Port on the front panel. Connect the other end of the Ethernet cable to ADSL modem, cable modem or a switch/hub of the internal network. The LED of this WAN should be on to indicate a proper connection.
3. Connect an Ethernet cable to one LAN Port with the user authentication function enabled on the front panel. The default ports are LAN1 ports. (Note: Authentication is required for the users to access the network via these LAN Ports. The LAN port with authentication function is referred to as **Public LAN**.) Connect the other end of the Ethernet cable to an AP or switch. The LED of this LAN should be on to indicate a proper connection.
4. Connect an Ethernet cable to one LAN Port with the user authentication function disabled on the front panel. The default ports are LAN2 ports. (Note: No authentication is required for the users to access the network via these LAN Ports. The LAN port without authentication function is referred to as **Private LAN** and the administrator can enter the administrative user interface to perform configurations via Private LAN.) Connect the other end of the Ethernet cable to a client's PC. The LED of this LAN should be on to indicate a proper connection.

Attention: Usually a straight RJ-45 could be applied if IAS-2000 is connected to a hub/computer that supports automatic 7 such as the Access Point. However, after the Access Point hardware reset, IAS-2000 should not be able to connect to Access Point while connecting with a straight cable unless the cable was pulled out and plug-in again. This scenario does NOT occur while using a crossover cable.

1.3.3 Getting Started

The IAS-2000 provides web-based configuration. After completing the hardware installation, IAS-2000 can be configured through a PC using JavaScript enabled Internet Explorer version 6.0 and above. To access the configuration screen, connect the PC and IAS-2000 in advance via the Private Port of IAS-2000. Then, launch the web browser and enter the IP address of the default gateway for that port in the address field then press **Enter**. Default IP address of the default gateway of the private ports is "**https://192.168.2.254**". (Note: **https** is used for a secured connection.)



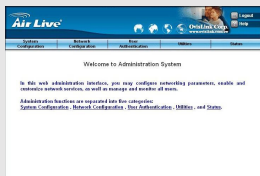
Once the IAS-2000 has been connected, the login screen will appear on the browser. Enter the default username, “**admin**”, and the default password, “**sohoware**”, in the User Name and Password column. Click the **Enter** icon to log in.

Welcome To Administrator Login Page!
Please Enter Your User Name and Password To Sign In.

User Name:

Password:

After successfully logging into IAS-2000, a web management interface with a welcome message will appear. To logout, simply click the **Logout** icon on the upper right corner of the interface to return to the login screen.



Click **System Configuration** on the upper left corner to go to the **System Configuration** screen and run the **Configuration Wizard** to help you complete the configuration.

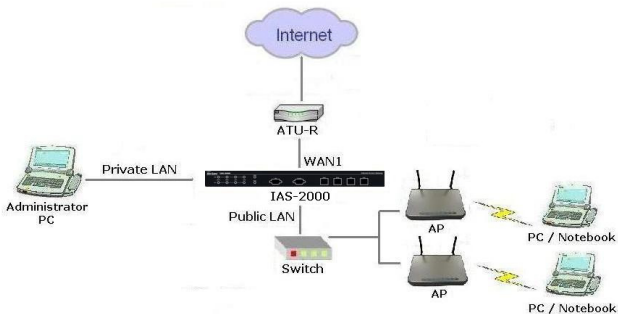


2. Common Settings

IAS-2000 is an all-in-one product specially designed for wireless network environment. It integrates “**Access Control**” and “**Wireless Network Access**” into one system to fulfill the needs in Hotel and Campus. In the Quick Installation Guide, two common settings are described below that allows you to use the **Configuration Wizard** utility to speed up the configuration process of IAS-2000. Please refer to section **2.1 Hotel** for hotel environment and section **2.2 Campus** for campus environment.

2.1 Hotel

IAS-2000 used in the hotel environment is usually connected to Internet through ADSL. Please refer to the following figure on connecting IAS-2000 and ADSL modem.



After completing the hardware installation and successfully logging into the configuration screen, IAS-2000 can then be configured from the web browser. In the hotel environment, it is convenient to use the built-in authentication server to quickly setup the services. One example is to set **Local User** authentication method in the **Configuration Wizard** for employees and for customers.

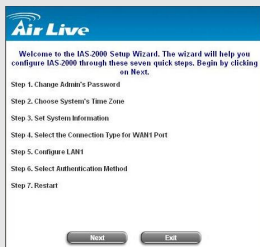
Click the **System Configuration** from the menu and the **System Configuration** screen will appear. Then, click the **Configuration Wizard** icon.



Click **Run Wizard** to begin the **Configuration Wizard**.

The **Configuration Wizard** will appear in a separate browser window.

Click **Next** to begin.



Step 1: Change Admin's Password

Enter a new password for the admin account and retype it in the verify password field (twenty characters maximum and no spaces allowed).

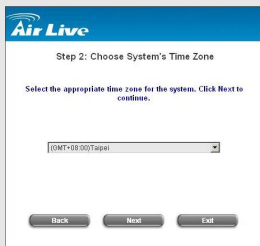
Click **Next** to continue.



Step 2: Choose System's Time Zone

Select a proper time zone via the pull-down menu.

Click **Next** to continue.



Step 3: Set System Information

- **Home Page:** Enter the URL that users should be initially directed to when successfully authenticated to the network.
- **NTP Server:** Enter the URL of external time server for IAS-2000 time synchronization or use the default.
- **DNS Server:** Enter a DNS Server provided by your ISP (Internet Service Provider). Contact your ISP if you are not sure of the DNS IP Address.

Click **Next** to continue.

Air Live

Step 3: Set System Information

Enter System Information. Click Next to continue.

Home Page: (e.g. http://www.ovislink.com.tw)

NTP Server: (e.g. tick.usno.navy.mil)

DNS Server:

Step 4: Select the Connection Type for WAN1 Port

There are three types of WAN port to select from: **Static IP Address**, **Dynamic IP Address** and **PPPoE Client**. Select a proper Internet connection type. PPPoE connection type is the most common setting for ADSL service, so select **PPPoE Client**.

Click **Next** to continue.

Air Live

Step 4: Select the Connection Type for WAN1 Port

Select the connection type for WAN1 port. Click Next to continue.

☐ Static IP Address Set WAN1 port with a static IP address.

☐ Dynamic IP Address Set WAN1 port to obtain an IP address automatically. (For most cable modem users.)

☒ PPPoE Client Set the Username and Password for PPPoE dial-up. (For most DSL users.)

Step 5: Set PPPoE Client's Information

Enter the **Username** and **Password** provided by your ISP.

Click **Next** to continue.

Air Live

Step 5: Set PPPoE Client's Information

Enter the PPPoE Client's information provided by your ISP. Click Next to continue.

Username:

Password:

Step 6: Configure LAN1's Information

IP Address: Enter the LAN1 port IP Address or use the default.

Subnet Mask: Enter the LAN1 port Subnet Mask or use the default.

Disable DHCP Server: If the DHCP server is disabled, the LAN1 clients must be configured with an IP address manually.

Enable DHCP Server: When the option is selected, IAS-2000 will automatically provide the necessary IP addresses to all LAN1 clients.

Click **Next** to continue.



Air Live

Step 5: Configure LAN1's Information

Configure LAN1's information. Click Next to continue.

IP Address: 192.168.1.254

Subnet Mask: 255.255.255.0

☐ Disable DHCP Server

☒ Enable DHCP Server

Back Next Exit

Step 7: Set LAN1 DHCP Server

If the Enable DHCP Server option is selected, fields marked with red asterisk must be filled in.

DHCP Scope: These fields define the IP address range that will be assigned to the LAN1 clients. (**Note: Be sure that IP address assigned in this range is NOT used in other setting through IAS-2000.**)

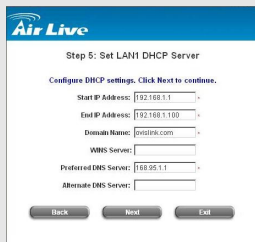
Domain Name: Enter a domain name provided by your ISP (e.g. yahoo.com.tw).

WINS Server: Enter the IP address of the WINS Server (Windows Internet Naming Service Server). This field is optional.

Preferred DNS Server: The DNS Server settings are provided by your ISP. Only the Preferred DNS Server field is mandatory. Contact your ISP if you are unsure of the DNS Server settings.

Alternate DNS Server: The DNS Server settings are provided by your ISP. This field is optional.

Click **Next** to continue.



Air Live

Step 5: Set LAN1 DHCP Server

Configure DHCP settings. Click Next to continue.

Start IP Address: 192.168.1.1

End IP Address: 192.168.1.100

Domain Name: ovislink.com

WINS Server:

Preferred DNS Server: 168.95.1.1

Alternate DNS Server:

Back Next Exit

Step 8: Select Default Authentication Server

Please specify the policy name for this authentication method. The Postfix Name field (e.g. Local) will be used as the **postfix** name (e.g. username@Local). An authentication method has to be selected from one of the five options appeared in this window (Local User is selected for this setup example). Local User is an authentication method that uses the built-in user account database supported by IAS-2000.

Click **Next** to continue.

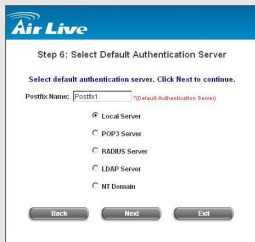
Step 9: Add User

A new user can be added to the local user database. To add a user here, enter the **Username** (e.g. test), **Password** (e.g. test), **MAC** (optional) and assign a policy to this particular user (or use the default). Upon completing adding a user, more users can be added to this authentication method by clicking the **ADD** bottom.

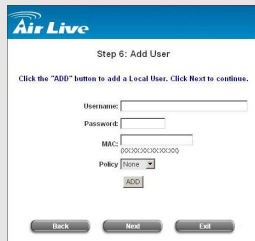
Click **Next** to continue.

Step 10: Restart

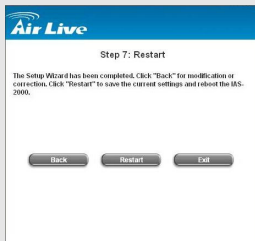
Click **Restart** to save the current settings and restart IAS-2000. The Setup Wizard is now completed.



The screenshot shows the 'Step 6: Select Default Authentication Server' window. It has a blue header with the 'Air Live' logo. Below the header, it says 'Select default authentication server. Click Next to continue.' There is a 'Postfix Name' field with 'Postfix1' entered and a tooltip that says '*(Default Authentication Server)'. Below this are five radio button options: 'Local Server' (selected), 'POP3 Server', 'RADIUS Server', 'LDAP Server', and 'NT Domain'. At the bottom are three buttons: 'Back', 'Next', and 'Exit'.



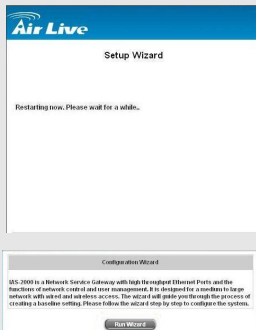
The screenshot shows the 'Step 6: Add User' window. It has a blue header with the 'Air Live' logo. Below the header, it says 'Click the "ADD" button to add a Local User. Click Next to continue.' There are four input fields: 'Username' (empty), 'Password' (empty), 'MAC' (with '00100000000000' entered), and 'Policy' (a dropdown menu showing 'None'). Below these fields is an 'ADD' button. At the bottom are three buttons: 'Back', 'Next', and 'Exit'.



The screenshot shows the 'Step 7: Restart' window. It has a blue header with the 'Air Live' logo. Below the header, it says 'The Setup Wizard has been completed. Click "Back" for modification or correction. Click "Restart" to save the current settings and reboot the IAS-2000.' At the bottom are three buttons: 'Back', 'Restart', and 'Exit'.

During IAS-2000 restart, a “**Restarting now. Please wait for a moment.**” message will appear on the screen. Please do not interrupt IAS-2000 until the **Configuration Wizard** window has disappeared. This indicates that the restart process has completed.

Now, the base configuration for Hotel environment has been finished!



If all the steps are done properly, IAS-2000 can be further connected to the managed network to experience the controlled network access environment. Firstly, connect an end-user device to the network at IAS-2000's Public LAN and set the end-user device to obtain an IP address automatically. After the network address is obtained, the user opens an Internet browser and links to any website. The default login webpage will appear in the Internet browser.

Key in the username and password created in the local user account database or from on-demand user account, click **Submit** button. Here, key in the local user account (e.g. **test@Local** for the username and **test** for the password) to connect to the network.



Attention: If you want to use the local user account, please key in “**username@postfix**” created previously in the username field.

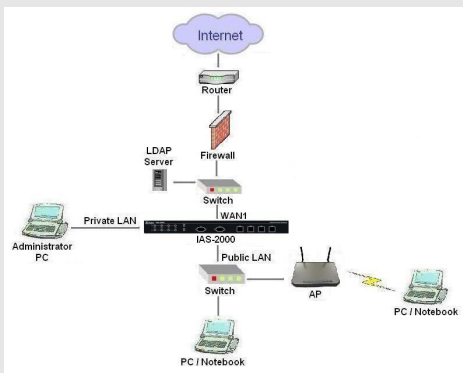
Congratulation!

Login page appearing means IAS-2000 has been installed and configured successfully. Now, you can browse the network or surf the Internet!



2.1 Campus

IAS-2000 used in the campus environment is usually connected to LDAP Server as an external authentication server. Please refer to the following figure on connecting IAS-2000 and ADSL modem.



After completing the hardware installation and successfully logging into the configuration webpage, IAS-2000 can then be configured from the web browser. Please refer to the following steps.

Click the **System Configuration** from the top menu and the **System Configuration** screen will appear. Then, click on **Configuration Wizard** icon.



Click **Run Wizard** to begin the Configuration Wizard.



The **Setup Wizard** will appear in a separate browser window.

Click **Next** to begin.



Step 1: Change Admin's Password

Enter a new password for the admin account and retype it in the verify password field (twenty characters maximum and no spaces allowed).

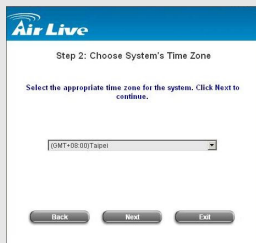
Click **Next** to continue.



Step 2: Choose System's Time Zone

Select a proper time zone via the pull-down menu.

Click **Next** to continue.



The screenshot shows the 'Air Live' interface for Step 2. The title is 'Step 2: Choose System's Time Zone'. Below the title, it says 'Select the appropriate time zone for the system. Click Next to continue.' There is a pull-down menu showing '(GMT+08:00)Taipei'. At the bottom, there are three buttons: 'Back', 'Next', and 'Exit'.

Step 3: Set System Information

Home Page: Enter the URL that users should be initially directed to when successfully authenticated to the network.

NTP Server: Enter the URL of external time server for IAS-2000 time synchronization or use the default.

DNS Server: Enter a DNS Server provided by your ISP (Internet Service Provider). Contact your ISP if you are not sure of the DNS IP Address.

Click **Next** to continue.



The screenshot shows the 'Air Live' interface for Step 3. The title is 'Step 3: Set System Information'. Below the title, it says 'Enter System Information. Click Next to continue.' There are three input fields: 'Home Page' with the value 'http://www.google.com', 'NTP Server' with the value 'tick.usno.navy.mil', and 'DNS Server' with the value '168.95.1.1'. Each field has a small example text below it. At the bottom, there are three buttons: 'Back', 'Next', and 'Exit'.

Step 4: Select the Connection Type for WAN1 Port

Select a proper Internet connection. In enterprises, Static IP Address type is the most common setting. Static IP Address is an assigned IP address used to connect to the Internet, so select Static IP Address.

Click **Next** to continue.



The screenshot shows the 'Air Live' interface for Step 4. The title is 'Step 4: Select the Connection Type for WAN1 Port'. Below the title, it says 'Select the connection type for WAN1 port. Click Next to continue.' There are three radio button options: 'Static IP Address', 'Dynamic IP Address', and 'PPPoE Client'. To the right of each option is a brief description. At the bottom, there are three buttons: 'Back', 'Next', and 'Exit'.

Step 5: Set WAN1 Port's Static IP Address

Enter the IP Address, Subnet Mask and Default Gateway provided by your ISP.

Click **Next** to continue.

The screenshot shows the 'Air Live' logo at the top. Below it, the title 'Step 4: Set WAN1 Port's Static IP Address' is displayed. The instruction reads: 'Set WAN1 port's static IP address. Click Next to continue.' There are three input fields: 'IP Address:', 'Subnet Mask:', and 'Default Gateway:'. Each field has a small 'x' icon to its right. At the bottom, there are three buttons: 'Back', 'Next', and 'Exit'.

Step 6: Configure LAN1's Information

IP Address: Enter the LAN1 port IP Address or use the default.

Subnet Mask: Enter the LAN1 port Subnet Mask or use the default.

Disable DHCP Server: If the DHCP server is disabled, the LAN1 clients must be configured with an IP address manually.

Enable DHCP Server: When the option is selected, IAS-2000 will automatically provide the necessary IP addresses to all LAN1 clients.

Click **Next** to continue.

The screenshot shows the 'Air Live' logo at the top. Below it, the title 'Step 5: Configure LAN1's Information' is displayed. The instruction reads: 'Configure LAN1's information. Click Next to continue.' There are two input fields: 'IP Address:' (with the value '192.168.1.254') and 'Subnet Mask:' (with the value '255.255.255.0'). Below these are two radio button options: 'Disable DHCP Server' and 'Enable DHCP Server' (which is selected). At the bottom, there are three buttons: 'Back', 'Next', and 'Exit'.

Step 7: Set LAN1 DHCP Server

If the Enable DHCP Server option is selected, fields marked with red asterisk must be filled in.

DHCP Scope: These fields define the IP address range that will be assigned to the LAN1 clients. (Note: Be sure that IP address assigned in this range is NOT used in other setting through IAS-2000.)

Domain Name: Enter a domain name provided by your ISP (e.g. yahoo.com.tw).

This screenshot is identical to the one in Step 6, showing the 'Air Live' logo, the title 'Step 5: Configure LAN1's Information', the instruction 'Configure LAN1's information. Click Next to continue.', the 'IP Address:' and 'Subnet Mask:' fields with their respective values, the 'Enable DHCP Server' radio button selected, and the 'Back', 'Next', and 'Exit' buttons at the bottom.

WINS Server: Enter the IP address of the WINS Server (Windows Internet Naming Service Server). This field is optional.

Preferred DNS Server: The DNS Server settings are provided by your ISP. Only the Preferred DNS Server field is mandatory. Contact your ISP if you are unsure of the DNS Server settings.

Alternate DNS Server: The DNS Server settings are provided by your ISP. This field is optional.

Click **Next** to continue.

Step 8: Select Default Authentication Server

Please specify the policy name for this authentication method. The **Postfix Name** field (e.g. LDAP) will be used as the postfix name (e.g. username@LDAP). An authentication method has to be selected from one of the five options appeared in this window (LDAP User is selected for this setup example). LDAP User is an authentication method that uses the external authentication server and the user account database.

Click **Next** to continue.

The screenshot shows a configuration window titled "Air Live" with the subtitle "Step 6: Select Default Authentication Server". Below the title, it says "Select default authentication server. Click Next to continue." There is a text field labeled "Postfix Name:" with the value "Postfix1" and a tooltip that says "(Default Authentication Server)". Below this are five radio button options: "Local Server", "POP3 Server", "RADIUS Server", "LDAP Server" (which is selected), and "NT Domain". At the bottom are three buttons: "Back", "Next", and "Exit".

Step 9: Authentication Method-LDAP

You can add a new user to the LDAP user database. Enter the "LDAP Server", "Server Port" and "Base DN". And then, you have to select one kind of **Binding Type** and **Account Attribute** to access the LDAP server.

- If you select **User Account** binding type, the system will use the **Base DN** to be the user account to access the LDAP server.

The screenshot shows a configuration window titled "Air Live" with the subtitle "Step 6: Authentication Method-LDAP". Below the title, it says "Configure LDAP Server Information. Click Next to continue." There are four text fields: "LDAP Server:" with a tooltip "(Domain Name/IP Address)", "Server Port:" with a tooltip "(Default: 389)", "Base DN:" with a tooltip "(CN=domain,dc=)", and "Binding Type:" with a dropdown menu showing "User Account". Below these is a text field for "Account Attribute:" with the value "sAMAccountName" and a tooltip "(CN=domain,dc=)". At the bottom are three buttons: "Back", "Next", and "Exit".

- If you select Anonymous binding type, the system will access the LDAP servers without requiring authentication.



Step 6: Authentication Method-LDAP

Configure LDAP Server Information. Click Next to continue.

LDAP Server: %Domain Name/IP Address

Server Port: %default: 389

Base DN: %CN=,dc=,com

Binding Type: **Anonymous**

Account Attribute: ☒ UD ☐ CN ☐ sAMAccountName

Back Next Exit

- If you select **Windows AD** binding type, please enter the domain name of Windows AD to access the LDAP server.

Click **Next** to continue.



Step 6: Authentication Method-LDAP

Configure LDAP Server Information. Click Next to continue.

LDAP Server: %Domain Name/IP Address

Server Port: %default: 389

Base DN: %CN=,dc=,com


Binding Type: **Windows AD**

Domain:

Back Next Exit

Step 7: Restart

Click **Restart** to save the current settings and restart IAS-2000. The Setup Wizard is now completed.

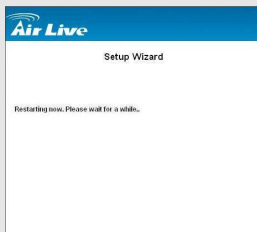


Step 7: Restart

The Setup Wizard has been completed. Click "Back" for modification or correction. Click "Restart" to save the current settings and reboot the IAS-2000.

Back Restart Exit

During IAS-2000 restart, a “**Restarting now. Please wait for a moment.**” message will appear on the screen. Please do not interrupt IAS-2000 until the **Configuration Wizard** has disappeared. This indicates that the restart process has been completed.



Now, the base configuration for Campus environment has been finished!



If all the steps are done properly, IAS-2000 can be further connected to the managed network to experience the controlled network access environment. Firstly, connect a user-end device to the network at IAS-2000's Public LAN and set to obtain an IP address automatically. After the network address is obtained at the user end, open an Internet browser and link to any website. Then, the default logon webpage will appear in the Internet browser.

Key in the username and password (e.g. **test@LDAP** for the username and **test** for the password) already existed in the LDAP server then click **Submit** button.



Attention: Use the LDAP server user account, please key in “**username@postfix**” where the username is already existed in your LDAP server.

Congratulation!

Logon page appearing means IAS-2000 has been installed and configured successfully. Now, you can browse the network or surf the Internet!



For further information, please refer to the user's manual.